

1N4001 THRU 1N4007 1.0 SILICON RECTIFIER

Technical Data Data Sheet N0543, Rev. - **Green Products**

1N4001 THRU 1N4007 1.0 SILICON RECTIFIER

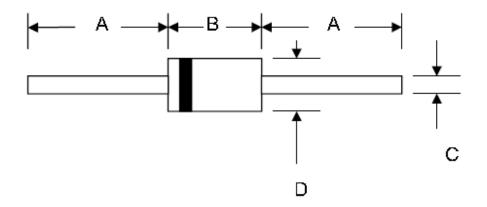
Features:

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical data:

- Case: Molded Plastic
- Terminals: Plated Leads Solderable Per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams(Approx)
- Mounting Position: Any

Mechanical Dimensions: In mm/Inches



D0-41							
Dim	Min	Max	Min	Max			
A	25.4	—	1.000	—			
В	4.06	5.21	0.159	0.205			
С	0.71	0.864	0.028	0.034			
D	2.00	2.72	0.079	0.107			
	In mm		In inch				

DO-41

- China Germany Korea Singapore United States •
- http://www.smc-diodes.com sales@ smc-diodes.com •

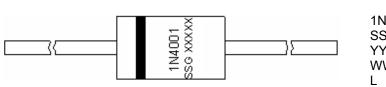


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Marking Diagram:



1N4001	= Part Name
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Where XXXXX is YYWWL

Cautions: Molding resin Epoxy resin UL: 94V-0

Ordering Information

Device	Package	Shipping
1N4001-1N4007	DO-41 (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current $@T_A = 75^{\circ}C$	Ι _Ο	1.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30						A	
Forward Voltage @I _F =1.0A	V _{FM}	1.0					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I _{RM}	5.0 50					μA		
Typical Junction Capacitance (Note 2)	CJ	15						pF	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ extsf{ heta}JA}$	50					°C/W		
Operating Junction Temperature Range	TJ	-65 to +125						°C	
Storage Temperature Range	T _{STG}	-65 to +150						°C	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm form the case.

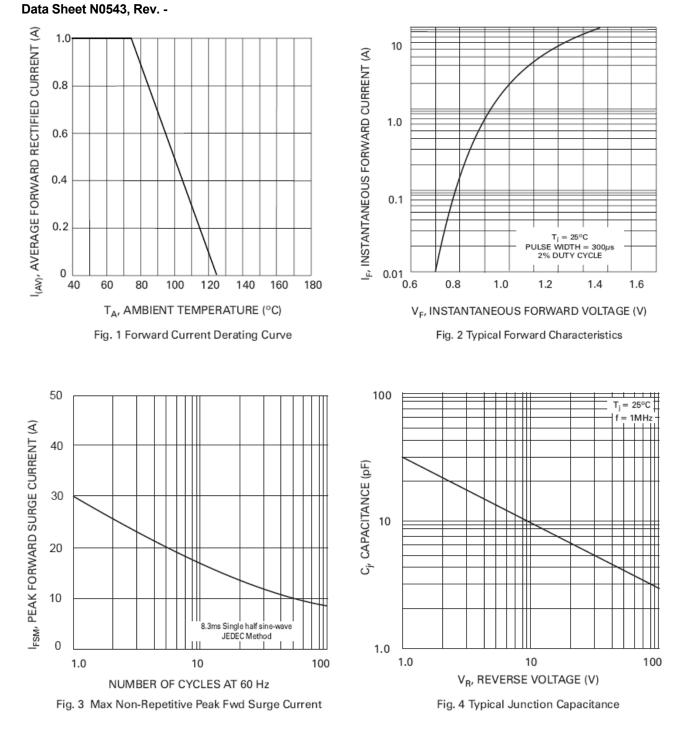
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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